

## ROUTING AND TRANSMITTAL

TO: (Name, office symbol, room number, Building, Agency/Post)		Initials	Date
1.	ADDA	<i>AF</i>	1-4
2.			
3.	DDA	<i>D</i>	1-5
4.			
5.			

Action	File	Note and Return
Approval	For Clearance	Per Conversation
As Requested	For Correction	Prepare Reply
Circulate	For Your Information	See Me
Comment	Investigate	Signature
Coordination	Justify	

## REMARKS

*2 cc to EO/DDA*

DO NOT use this form as a RECORD of approvals, concurrences, disposals, clearances, and similar actions

FROM: (Name, org. symbol, Agency/Post)	Room No.—Bldg.
	Phone No.

5041-102

☆ U. S. GPO: 1978-0-261-647/3354

OPTIONAL FORM 41 (Rev. 7-76)  
Prescribed by GSA  
FPMR (41 CFR) 101-11.206

**SECRET**

25X1

28 December 1981

MEMORANDUM FOR: Robert C. Saunders  
IHSA

FROM:

Chairman, Scientific and Technical Facilities  
Working Group

25X1

SUBJECT: Report of Working Group III

1. Working Group III on Scientific and Technical Facilities met for several sessions between 9 November and 4 December 1981. We addressed the areas presented in the IHSA Point Paper on Scientific and Technical Facilities and reached the attached conclusions. All members of the Working Group contributed to these findings and several supported the effort with written contributions.

2. As we note in the attached paper, the growth in these areas has just reached a takeoff point and is accelerating. Under these conditions, we cannot presume to give quantitative growth estimates.

25X1

Attachment:  
as stated

Unclassified when separated from attachment.

25X1

**SECRET**

25X1

**SECRET**

25X1

## Executive Summary

The most serious problem which the CIA has in Scientific and Technical Facilities is a shortage of persons with the skills to develop, maintain, and use the required hardware and software. The problem will become more acute in the 1985-1989 period. Unless Agency management acts to meet this shortfall, we will accelerate and make permanent our already increasing dependence on external contracts to meet this need. ☐

25X1

Models, interactive graphics, and special machinery already are an essential part of our intelligence process. Because they provide powerful tools for collection and analytical support, they are in increasing demand and are becoming more complex and expensive. Yet they are only now reaching the takeoff point in the growth curve. The 1970s was a decade of rapid growth in terminals and data bases in the CIA. In the mid 1980s, models and interactive graphics will grow at a correspondingly rapid rate, and we cannot forecast that growth except by analogy. Specialized signal processing facilities and other special equipment will become more complex and expensive, but their use will not become as pervasive as will the use of models and interactive graphics. ☐

25X1

If the CIA is able to provide the trained people and the facilities, the overall effect on intelligence collection, production, and special operations could be nearly revolutionary. By the end of the decade the CIA could change more than it has changed in the last two decades. These tools can provide an order of magnitude of improvement in: The speed of intelligence production; the breadth and accuracy of analysis; the volume of technical intelligence processed, and the quality of the product; the quality of information and decision tools in the hands of special operations managers; and in crisis management capability. ☐

25X1

In order for these tools to fulfill their promise, several additional requirements must be satisfied. ☐

25X1

We will require a carefully planned architecture for handling and interrelating complex analysis models. This must include provisions for supplying large volumes of data to the models or processing equipment from a wide variety of sources, from unclassified trade data to highly compartmented technical collection data. Standardization of data bases and flexibility of data base use are essential. ☐

25X1

We foresee a strong demand for the skilled management of models and signal processors, the demand for which will be akin to the earlier demand for data base management systems which resulted from the data base chaos of the 1960s. Both this requirement and the requirement of the preceding paragraph will require a major Agency R&D effort in the early 1980s. ☐


25X1

**SECRET**


25X1

**SECRET**  

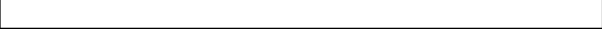

25X1


Models, signal processors, and special operations support will make increasing use of an interactive graphics terminal as the work station of choice. We will require an off the shelf capability for interactive graphics terminals which have the flexibility to meet differing needs. 

25X1

The need for increased processing capability will exist during the planning period. Because of the requirement to produce results from interrelated scientific and modeling analysis in a timely manner we cannot be constrained by today's limitations in the areas of size, scheduling and resources. These applications demands must be met in an unconstrained, timely manner. 

25X1

In general, special machinery is not discussed in this report, even though it is in the original charter to Working Group III. Special machinery is a solution, not a requirement, and our charter is limited to stating requirements. 



25X1

25X1

**SECRET**  


25X1

**Page Denied**

Next 12 Page(s) In Document Denied

## ROUTING AND TRANSMITTAL

Date  
8 January 1982

TO: (Name, office symbol, room number, building, Agency/Post)	Initials	Date
1. ADDA	X	8 JAN 1982
2. DDA (for signature)		8 JAN 1982
3.		
4.		
5.		

Action	File	Note and Return
Approval	For Clearance	Per Conversation
As Requested	For Correction	Prepare Reply
Circulate	For Your Information	See Me
Comment	Investigate	Signature
Coordination	Justify	

## REMARKS

ExDir is included on distribution.

DO NOT use this form as a RECORD of approvals, concurrences, disposals, clearances, and similar actions

FROM: (Name, office symbol, Agency/Post)	Room No.—Bldg.
EO/DDA	Phone No.

5041-102

OPTIONAL FORM 41 (Rev. 7-76)

☆ U. S. GPO: 1978-0-261-647/33541

Prescribed by GSA  
FPMR (41 CFR) 101-11.206

25X1